

Knowledge, evidence
and learning for
development

COVID-19

Health Evidence Summary No.55

*Kerry Millington & Samantha Reddin**Liverpool School of Tropical Medicine (LSTM) & Institute of Development Studies**05 June 2020*

This daily COVID-19 Health Evidence Summary is to signpost DFID and other UK government departments to the latest relevant evidence and discourse on COVID-19 to inform and support their response. It is a result of 3 hours of work and is not intended to be a comprehensive summary of available evidence on COVID-19 but aims to make original documents easily accessible to decision makers which, if relevant to them, they should go to before making decisions.

Infection Prevention and Control

| Publication date | Title/URL | Journal/Article type | Summary | Keywords |
|------------------|---|------------------------|---|------------|
| 04.06.2020 | Correlation between N95 extended use and reuse and fit failure in an emergency department | JAMA Research Letter | <ul style="list-style-type: none"> • There is a lack of empirical evidence on the effectiveness of N95 reuse and extended use during critical PPE shortages. This study examined the prevalence of N95 fit test failure while reusing 2 common types of N95 masks • Duckbill N95s had a high failure rate. Failure of dome-shaped masks was associated with increased use. • N95 failure may contribute to SARS-CoV-2 transmission and based on this preliminary data, health systems should closely evaluate N95 fit during extended use or reuse and limit duckbill mask use if alternatives are available | Face masks |

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| | | | <ul style="list-style-type: none"> Limitations, including the study's cross-sectional design, are noted | |
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Testing

| Publication date | Title/URL | Journal/Article type | Summary | Keywords |
|------------------|---|--------------------------------------|--|-----------------|
| 04.06.2020 | Serodiagnostics for Severe Acute Respiratory Syndrome-Related Coronavirus-2: A narrative review | Annals of Internal Medicine Review | <ul style="list-style-type: none"> Discusses key use cases for SARS-CoV-2 antibody detection tests and their application to serologic studies Reviews currently available assays Highlights ongoing research Proposes potential strategies for test implementation | Serodiagnostics |

Comments, Editorials, Opinions, Blogs, News

| Publication date | Title/URL | Journal Article type | Author(s) |
|------------------|--|-------------------------------------|-----------|
| 05.06.2020 | Oxford University's COVID-19 vaccine: next steps towards broad and equitable global access | University of Oxford News | |
| 04.06.2020 | Brazilian Health Regulatory Agency approves trial of Oxford COVID-19 Vaccine | Med Sci University of Oxford News | |

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| 05.06.2020 | Retraction – Hydroxychloroquine or chloroquine with or without a macrolide for treatment of COVID-19: a multinational registry analysis | The Lancet Comment | Mandeep R Mehra Frank Ruschitzka Amit N Patel |
| 04.06.2020 | Retraction: Cardiovascular disease: drug therapy, and mortality in Covid-19. NEJM DOI 10.1056/NEJMoa2007621 | NEJM Correspondence | Mandeep R Mehra Sapan S Desai SreyRam Kuy Timothy D Henry Amit N Patel |
| 04.06.2020 | Making decisions in a COVID-19 world | JAMA Viewpoint | Baruch Fischhoff |
| 04.06.2020 | Is Nigeria Ready to leave lockdown? | CGD Blog | Benjamin Uzochukwu Francis Ruiz Kalipso Chalkidou Eno'bong Idiong Samantha Hollingworth |
| 04.06.2020 | India's COVID-19 testing capacity must grow by a factor of 10: here's how that can happen | CGD Notes | Prashant Yadav Abha Mehndiratta Kalipso Chalkidou Sidharth Rupani Krishna Reddy |

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| 04.06.2020 | The indirect health effects of COVID-19: lockdown measures and service provision | CGD Blog | Lydia Regan Y-Ling Chi |
| 03.06.2020 | As global health players pivot to COVID-19 responses we need coordinated, real-time, formative evaluations | CGD Blog | Pippa Page Cassandra Nemzoff Kalipso Chalkidou Sam McPherson |

Guidelines, Statements & Tools

| Publication Date | Title/URL | Source | Summary |
|------------------|--|----------------------------|--|
| 05.06.2020 | Statement from the Chief Investigators of the Randomised Evaluation of COVID-19 thERapY (RECOVERY) Trial on hydroxychloroquine | RECOVERY Trial Statement | <ul style="list-style-type: none"> At the request of the MHRA the independent DMC recommended chief investigators review the unblinded data on the hydroxychloroquine arm of the trial No clinical benefit from use of hydroxychloroquine in hospitalised patients with COVID-19 Participants are no longer to be enrolled to the hydroxychloroquine arm of the RECOVERY trial with immediate effect Full results will be made available as soon as possible |
| 01.06.2020 | Maintaining essential health services: operational guidance for the COVID-19 context | WHO Interim guidance | <ul style="list-style-type: none"> Note an update to interim guidance issues on 25 March 2020 Practical actions that countries can take at national, subregional and local levels to reorganise and safely delivery high-quality essential health services in the pandemic context |

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| | | | <ul style="list-style-type: none"> Includes sample indicators for monitoring essential health services Describes considerations when to stop and restart services as C19 transmission recedes and surges |
| May 2020 | COVID-19 Considerations for home and community-based care | SSHAP Brief | <ul style="list-style-type: none"> Guidelines from LMICs recognise the need for supported home and community-based care for C19 to protect formal healthcare setting capacity and to reduce the risk of spread in health facilities. Moreover, not all will be able to access services or may prefer home care. The Brief reviews existing guidance on home and community-based care for C19 in different contexts, identifies key issues and offers recommendations for addressing gaps in home and community-based care |

Dashboards & Trackers

| Cases & deaths: Global | Cases & deaths: Regional | Cases & deaths: Country | Living evidence & policy maps | Current research including trials | Diagnostics | Treatments | Vaccines |
|--------------------------|--------------------------|-------------------------|--------------------------------------|---|---|--|-------------------------------|
| WHO sitreps | WHO Africa | Ghana | COVID-NMA | WHO | FIND SARS-CoV-2 Test Tracker | Global COVID-19 Clinical Trial Tracker | CEPI |
| WHO dashboard | African Arguments | Indonesia | EPPI Centre | WHO International Clinical Trials Registry Platform (ICTRP) | FIND SARS-CoV-2 Diagnostics: performance data | US NIH registered clinical trials | Vaccine Centre LSHTM |
| Johns Hopkins University | European CDC | Nigeria CDC | Norwegian Institute of Public Health | Cytel | Serology-based tests for COVID-19 | Solidarity trial | COVID-19 Oxford Vaccine Trial |

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| WEF | | Sierra Leone | Oxford C19 Government Response Tracker (OxCGRT) | US NIH | Our World in Data: C19 Testing | COVID-19 Therapeutics Accelerator | |
| Our World in Data | | Singapore | Our World in Data: C19 Policy responses | COVID-evidence | | | |
| Global 5050 | | UK | IFPRI COVID-19 Policy Response Portal | Cochrane | | | |
| CEBM, University of Oxford | | US | COVID-19 Primer | Clinicaltrials.gov | | | |
| Humanitarian Data Exchange | | | NIH LitCovid | UKCDR | | | |
| Information is Beautiful | | | WHO COVID-19 Database | | | | |
| LSHTM | | | | | | | |
| HealthMap (cases) | | | | | | | |
| The Commons Project | | | | | | | |

C19 Resource Hubs

| Global | Regional & Country | Academic journals & Publishers | Institutes/Centres/Funders/Other | Health Topics | Social Sciences |
|-----------------------------------|----------------------------------|--------------------------------|---|---|---|
| WHO COVID-19 pandemic | Africa CDC | Annals of Internal Medicine | LSTM | Stop TB Partnership | SSHAP |
| WHO risk communication | African Union | BMJ | LSHTM | | IDA |
| WHO Q&A | Nigeria CDC | Bulletin of the WHO | ICL MRC Centre for Global Infectious Disease Analysis | Global Menstrual Collective | Disability and inclusion |
| WHO Global research | GeoPoll: SSA | Cambridge University Press | ODI | SLH: Handwashing in low resource settings | Coregro up IDDC |
| COVID-19 Solidarity Response Fund | Global Health Network Africa | Cell Press | Johns Hopkins University | RBM Partnership | Ethics, health systems & COVID-19 |
| UN | African Academy of Sciences | Cochrane | Center for Global Development | | Social Development Direct C19 blog series |
| UN Women | Africa Evidence Network | Elsevier | CMMID Repository | | |
| UNOCHA | OCHA Southern and Eastern Africa | JAMA Network | Norwegian Institute of Public Health | | |

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| | COVID-19 Digest | | | | |
| UNHCR | South African Government | The Lancet | Oxford Centre for Evidence-based Medicine | | |
| UNICEF | | medRxiv and bioRxiv (Preprints) | HEART | | |
| UNESCO | | NEJM | UKRI | | |
| UN WFP | | Oxford University Press | Evidence Aid | | |
| GOARN | | PLoS | NIH | | |
| EPI-WIN | | SAGE journals | IFPRI Resources and Analyses of C19 Impact | | |
| World Bank | | Science | Prevent Epidemics | | |
| Our World in Data | | Springer Nature | | | |
| COVID-19 Narratives by David Nabarro | | SSRN (Preprints) | | | |
| Reliefweb | | Wiley | | | |
| Humanitarian OpenStreetMap Team | | | | | |
| Global Partnership for Sustainable | | | | | |

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| Development Data | | | | | |
| WorldPop | | | | | |
| Flowminder | | | | | |
| COVID-END | | | | | |
| Premise COVID-19 Global Impact Study | | | | | |

Online learning & events

| Date | Title/URL | Online learning/event | Duration | Lead |
|-----------------------|--|-----------------------|----------------------------|---------------------------------|
| Available now | Standard precautions: Environmental cleaning and disinfection | Online course | 1 hour | WHO |
| 16.06.2020 | Africa beyond COVID-19 | Virtual event | 1h 30 hours | ODI |
| 15.06.2020 | Poverty monitoring in the context of Covid-19 | Virtual event | 1h 15 | ODI |
| Available now | COVID-19: Effective Nursing in Times of Crisis | Online course | 2 weeks – 2 hours per week | Johns Hopkins School of Nursing |
| 05.06.2020 12pm ET | CGD Conversations on COVID-19 and Development: John Nkengasong | Event | | CGD |

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|---|---|-----------------|--------------------------------|---|
| Available now | WHO Academy and WHO Info mobile applications | Mobile app | | WHO |
| Available now | COVID-19: Pandemics, Modelling and Policy | Online learning | 2 weeks 2 hours weekly study | FutureLearn UNESCO UNITWIN Complex Systems Digital Campus/Open University |
| 12.05.2020 | COVID-19 and maintaining quality essential health services | Webinar | 1 hour | WHO & ISQua – Dr Shams Syed, Dr Peter Lachman, Dr Teri Rynolds & Dr Ed Kelley |
| 11.5.2020 | COVID-19 Contact Tracing course | Online learning | 5 hours | Johns Hopkins Bloomberg School of Health |
| 7-28 May 2020 | Virtual Evidence Weeks | 5 sessions | 1h 30 | International Initiative for Impact Evaluation (3ie) |
| Tuesdays at 1700 CEST (Geneva time) & Thursdays 0830 CEST (Geneva time) | COVID-19 Open online brief with Dr David Nabarro | Event | 1h | 4SD |
| 30.04.2020 | Professor Chris Whitty's Gresham lecture on COVID-19 | Event | 1h 20 | Gresham College |
| Available now | Emerging respiratory viruses, including COVID-19: methods for detection, prevention, response and control | Online learning | 3 hours | WHO |

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|---|---|-----------------|--------------------------------|--|
| Available now | Responding to COVID-19: Real-time training for the coronavirus disease outbreak | Online learning | Multiple self-paced course | WHO |
| 25 May 2020 | COVID-19: Tackling the Novel Coronavirus | Online learning | 3 weeks 4 hours weekly study | FutureLearn LSHTM/UK PHRST |
| Available online now without mentors. Updated version will commence early June 2020 | COVID-19 Diagnostics and Testing | Online learning | 3 weeks 3 hours weekly study | FutureLearn FIND/LSHTM/ASLM |
| 6 April 2020 | COVID-19 Critical Care: Understanding and Application | Online learning | 5 weeks 1 hour weekly study | FutureLearn University of Edinburgh & Royal College of Physicians of Edinburgh |
| Available now | COVID-19 supporting online courses | Online learning | Multiple self-paced course | BMJ Learning |

Suggested citation

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Rapid review methodology

The rapid daily search for peer-reviewed literature is carried out through a PubMed search with the following keywords ("COVID-19" OR "severe acute respiratory syndrome coronavirus 2" OR "2019-nCoV" OR "SARS-CoV-2" OR "2019nCoV" OR "coronavirus") AND ("Africa") OR ("equity" OR "equities") OR ("poverty"), restricted to articles published in the previous 2 to 3 days, in English. This is complemented by a search of the homepage of the following high-impact global health journals: The Lancet journals, New England Journal of Medicine, Nature, JAMA, Annals of Internal Medicine, Cochrane Reviews, BMJ Global Health, the PLoS journals and a Twitter search of their Twitter pages. A search also of preprints from bioRxiv and medRxiv. Please note that papers that have not been peer-reviewed are highlighted in red. All primary research papers that relate to the primary and secondary impacts of the COVID-19 response in LMICs, and disease control and health system responses are included. Articles related to tackling the secondary impacts on other sectors are not included. Additional commentaries, opinions, and commissioned pieces are selected based on relevance.

The search for dashboards, guidelines, tools, editorials, comments, blogs, opinions and news is through the academic journals listed above, C19 resource hubs and following lead academics and professionals on Twitter.

About this report

This daily COVID-19 health evidence summary (HES) is based on 3 hours of desk-based research. The summary is not intended to be a comprehensive summary of available evidence on COVID-19 but aims to make original documents easily accessible to decision makers which, if relevant to them, they should go to before making decisions. The HES are not intended to replace medical or professional advice and the researcher or the K4D consortium cannot be held responsible for any decisions made about COVID-19 on the basis of the HES alone. K4D services are provided by a consortium of leading organisations working in international development, led by the Institute of Development Studies (IDS), with Education Development Trust, Itad, University of Leeds Nuffield Centre for International Health and Development, Liverpool School of Tropical Medicine (LSTM), University of Birmingham International Development Department (IDD) and the University of Manchester Humanitarian and Conflict Response Institute (HCRI).

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